

PATENT

DEFORMABLE MAT COMPRISING A FIBROUS REINFORCEMENT, FOR
THE MANUFACTURE OF COMPOSITES HAVING A THERMOPLASTIC
MATRIX

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ABSTRACT

The invention relates to a deformable mat, consisting of at least one web comprising at least one reinforcing substance and at least one thermoplastic substance, these substances being in the form of chopped yarns and/or continuous yarns, and the yarns being bonded together so that the mat has an elongation at break in all directions of at least 50% and preferably varying from 100 to 150%.

It also relates to a process for manufacturing the deformable mat consisting in forming a web of said yarns, in treating the web under conditions allowing the yarns to be moderately bonded and in collecting the mat obtained.

The invention furthermore relates to the use of the mat for manufacturing composite parts by vacuum molding or compression molding.

Figure 1